

Claims

**I claim:**

1. A spray paint gun comprising
- a gun body having a male thread, and
- an air nozzle ring having female thread, the female thread being adapted to be
- screwed onto the male thread,
- wherein the thread is a trapezoid thread having a flank angle in the range of about
- +/- 20% of 30°, wherein the diameter of the thread is between about 30 and about 40 mm
- and wherein
- the thread height is within the range of about +/- 20% of 1.1 mm,
  - the root to crest clearance is within the range of about +/- 20% of 0.1 mm,
  - the flank clearance is within the range of about +/- 20% of 0.15 mm.
2. A spray gun according to claim 1, wherein the pitch is in the range of about +/-
- 20% of 2.5 mm.
3. A spray gun according to claim 1, wherein the core diameter and the outer
- diameter of the male thread of the gun body have a tolerance in the range of about +/-
- 20% of -0.05 mm, respectively.

4. A spray gun according to claim 2, wherein the core diameter and the outer diameter of the male thread of the gun body have a tolerance in the range of about +/- 20% of -0.05 mm, respectively.

5. A spray gun according to claim 1, wherein the core diameter and the outer diameter of the female thread of the air nozzle ring have a tolerance in the range of about +/- 20% of +0.1 mm, respectively.

6. A spray gun according to claim 2, wherein the core diameter and the outer diameter of the female thread of the air nozzle ring have a tolerance in the range of about +/- 20% of +0.1 mm, respectively.

7. A spray gun according to claim 3, wherein the core diameter and the outer diameter of the female thread of the air nozzle ring have a tolerance in the range of about +/- 20% of +0.1 mm, respectively.

8. A spray gun according to claim 4, wherein the core diameter and the outer diameter of the female thread of the air nozzle ring have a tolerance in the range of about +/- 20% of +0.1 mm, respectively.

1 9. A spray gun according to claim 2, wherein the pitch has a tolerance in the range of  
2 about +/- 20% of +/- 0.1 mm.

*Sub 26*  
4 10. A spray gun according to claim 1, wherein the nominal diameter of the trapezoid  
thread is about 38 mm.

5 11. A spray gun according to claim 2, wherein the nominal diameter of the trapezoid  
6 thread is about 38 mm.

00727455-120400